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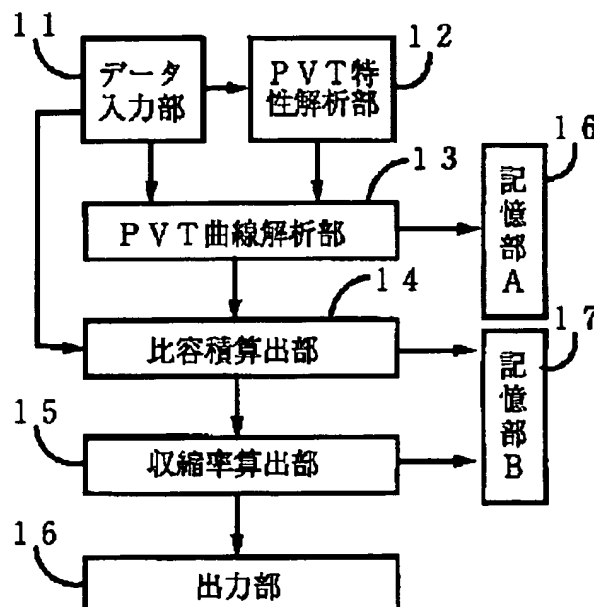
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APPLICANT : TORAY IND INC;

INVENTOR : HIRATSUKA MOTONORI;

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TITLE : SIMULATION METHOD OF MOLD SHRINKAGE PROCESS IN CRYSTALLINE RESIN MOLDING AND DEVICE THEREOF



ABSTRACT : PROBLEM TO BE SOLVED: To estimate a shrinkage factor by a method wherein the PVT curve of resin in accordance with the crystallization behavior in molding and the specific volume of the resin are calculated.

SOLUTION: The outputs from an input part 11, in which various data necessary for analysis are fed to a PVC characteristic curve analysing part 12 for calculating the PVC characteristic curve of resin at any crystallinity, a PVC curve calculating part 13 for calculating the PVC curve of resin in accordance with the crystallization behavior at molding and a specific volume calculating part 14 of the resin. The output of the PVC curve calculating part 13 is fed to a storage part A16 and the specific volume calculating part 14. The output of the specific volume calculating part 14 is fed to a storage part, in which the analytical result is stored, and to a shrinkage factor calculating part 15 for calculating the shrinkage factors at molding. The output of the shrinkage factor calculating part 15 is fed to the storage part, in which the analytical result is stored.

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